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GENERAL SERVICES ADMINISTRATION PROJECT

**Reference: Asbestos Survey - Group B, Massachusetts
Contract No. GS01P86BWC0214
GSA Building No. MA0012ZZ
U.S. Custom House
Boston, MA
Briggs Project No. 70,449**

Prepared For:

**General Services Administration - Region I
John W. McCormack Post Office Building
Boston, MA 02109**

**Attn: Mr. David Walker, Chief
Accident & Fire Protection Branch**

August 22, 1986



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August 22, 1986

General Services Administration - Region I
John W. McCormack Post Office Building
Boston, MA 02109

Attention: Mr. David Walker, Chief
Accident & Fire Protection Branch

Reference: Asbestos Survey - Group B, Massachusetts
Contract No. GS01P86BWC0214
GSA Building No. MA0012ZZ
U.S. Custom House
Boston, MA
Briggs Project No. 70,449

Dear Mr. Walker:

Enclosed is our report concerning the above referenced project.

Upon review, if you have any questions, or if we can be of further assistance, please do not hesitate to let us know. Thank you for contracting our services with this project.

Sincerely yours,

BRIGGS ASSOCIATES, INC.

James S. Litrides, I.H.
Manager of Industrial Hygiene Services

JSL/lat

Introduction

An asbestos survey was conducted at the U.S. Custom House on State Street in Boston, Massachusetts. The purpose of the survey was to (1) quantify the amounts, types, locations and condition of asbestos present, (2) calculate hazard exposure, and (3) recommend abatement action.

The U.S. Custom House is an old historical building built between 1837 and 1847 in a Greek Revival style. The building originally consisted of four floors including the basement. In 1911, the tower section was added on over the dome on the roof. A walk-through survey was accomplished by a Briggs Industrial Hygiene Specialist to perform the required tasks. Bulk samples were obtained to determine the identity of suspect materials and to analyze their composition. Visual inspection throughout the building determined estimates of the amounts and condition of the asbestos materials present. The Exposure Assessment Algorithm was calculated to determine the exposure hazard and used as a basis for abatement action recommendations.

From all the information and data compiled in the asbestos survey, the General Services Administration will be able to proceed with a plan of abatement action for a comprehensive asbestos management program for GSA building number MA0012ZZ.

Site Survey and EPA Exposure Assessment Algorithm

The site survey was conducted at the U.S. Custom House located in Boston, Massachusetts to quantify the amounts, types, locations and condition of asbestos present. From this information the EPA Exposure Assessment Algorithm was calculated.

Bulk samples were collected of all materials suspected of containing asbestos and returned to our laboratory for analysis. The samples were analyzed using Polarized Light Microscopy as described in 40 CFR 763. The following nine components were considered when analyzing each sample.

- | | |
|-------------------------------|---------------------------|
| 1. Chrysotile Asbestos | 6. Cellulose/Animal Fiber |
| 2. Amosite Asbestos | 7. Cementitious |
| 3. Other Asbestiform Asbestos | 8. Other Non-Fibrous |
| 4. Non-Asbestiform Asbestos | 9. Other Fibrous |
| 5. Fiberglass/Mineral Wool | |

The samples were analyzed by Briggs personnel who have demonstrated proficiency in the EPA sponsored Research Triangle Institute (RTI) Asbestos Bulk Sample Analysis Quality Assurance Program.

The "Exposure Assessment Algorithm" was calculated for each bulk sample taken to determine whether a hazardous condition exists due to the presence of friable asbestos.

An exposure hazard is calculated by combining the results of nine factors. The exposure hazard can not quantify a health risk, but is an indicator to aid in determining the appropriate level of concern for an exposure area. The exposure hazard may be used to (1) determine whether corrective action can be deferred or should be initiated, (2) set priorities for decision-making, and (3) select a corrective action.

The exposure hazard is then ranked based upon an EPA method. The rankings are:

- (a) Rank 1. Only non-friable asbestos-containing material present.
- (b) Rank 2. Friable material in good condition and with no potential for disturbance.
- (c) Rank 3. Friable material in good condition, but with a significant potential for disturbance.
- (d) Rank 4. Friable material is in poor condition.

Site Survey and EPA Exposure Assessment Algorithm (cont.)

For the purpose of assigning a ranking to an entire building, the highest ranking of any space in the building is used .

The second part of the Asbestos Assessment Form consists of recommendations for corrective action. The corrective action is determined by the condition of the material, and its potential for erosion or disturbance.

Table I presents a summary of all materials analyzed and their composition. (Appendix A presents the bulk samples submitted to a third party analytical laboratory for quality control analysis.)

Table II presents the Asbestos Assessment Form which incorporates the exposure hazard calculation and recommendations for corrective action.

Table III presents a summary of the amount and locations of asbestos-containing materials (ACM) identified in the facility. Appendix B presents diagrams indicating the locations of the ACM.

Boiler Room

The ceiling of the room has travelled-on asbestos-containing material. The ceiling is painted over but is severely damaged. There are large areas exposed from pieces of ceiling that have fallen. Hanging pieces of ceiling with dangling friable material is visible all over the boiler room area. There is debris from the ceiling over the floor, lying on pipe surfaces and on top of the boilers.

The boilers, three in number, are insulated in asbestos-containing material. The two larger boilers are severely damaged with cracks in the plaster-like lagging, exposing surface area. The smaller boiler has moderate damage with paint peeling off and small areas exposed.

The ducts extending from the boilers have lagging similar to that of the boilers. The circular duct (4' L x 6' D) connected to the small boiler has severe damage with sections of the duct missing. The larger duct also has evidence of severe damage. There are visible cracks in the lagging and exposed asbestos material. A hole was created in the insulation and all the loose friable material from the hole is lying above on the top surface of the duct.

The majority of piping is of asbestos-containing material with a small percentage being fiberglass insulated. The elbows are also ACM including the ones on the fiberglass pipes. The asbestos-containing valve bodies are severely damaged with dangling friable ends visible. There are areas with no lagging. The pipes, valves and elbows have an EPA site ranking of four due to the severe damage, high friability and large exposed surface area.

Site Survey and EPA Exposure Assessment Algorithm (cont.)

Sprinkler Room

The hot water tank (10' L x 5' D) in the corner of the room has moderate damage to its asbestos-containing insulation. The paint covering is peeling off, exposing the inner material.

The piping in the room is of two types: a compressed paper-like material or a white powdery cementitious material. There is moderate damage to the pipes/elbows with exposed ends visible.

The other surrounding areas around the boiler room in the basement have moderate to severely damaged pipes and elbows. In a small room off to the corner, there is a hot water tank that is severely damaged with the top surface exposed. All loose pieces sit on top of the tank. In certain areas such as Room C and F. O. tank #2, the piping has water damage.

Pipe Shafts

Within the building, there are four sets of pipe shafts located on the floors.

In the bathroom, off the elevator on Floors 4 through 18 the pipes and elbows received a ranking 4 on the EPA site ranking due to the moderate to severe damage to the pipes. On the lower floors the pipes are exposed with no lagging showing signs of severe damage. Debris is found on the ground and there is loose friable ends dangling from the pipes. As the pipes go up, the damage is not as severe and becomes more moderate.

The pipe shafts located on the back stairs, many of which were unable to be opened, had pipes with severe damage and deterioration. ACM debris off the pipes was found on grate. On the moderately damaged pipes there was indentations, nicks and tears in the lagging.

The other two pipe shafts are located in the office work area. These pipe shafts were difficult to open due to old locks and obstructed doorways. The pipe shafts near the back door fire exits, did not have insulated pipes but the pipe shaft in the corner offices had ACM insulated pipes. The pipe shafts on the 7th, 10th, and 14th Floors were the ones opened and the pipes in these had moderate damage, exposed ends, and debris on the floor.

Street Level

ACM insulated pipes can be found in the circular lobby outside the elevator area. The pipe near the stairs has a damaged end with dangling friable ends near the floor. The offices and restrooms on the floor have ACM insulated pipes that are in good condition with minor damage, if any.

Site Survey and EPA Exposure Assessment Algorithm (cont.)

First Floor

Pipes with asbestos insulation are found in the office area running vertically with the wall. In the U.S. Custom Administration area, Vancor's office has a damaged end on a pipe with debris on the rug. In the women's room near the receptionist, there is piping in the area with exposed ends and minor damage.

On the other side of the corridor, the Import Control office has asbestos-containing insulation on the piping. The largest amount found is in the storage room area. The pipes in this area have exposed ends but are in good condition with lagging and painted over.

Second Floor

No ACM were identified.

Dome Level

This floor houses the dome which was in 1847 the top of the roof. Surrounding the dome in the room, the pipes are of asbestos-containing material. The pipes have lagging but in places the lagging is falling off. The pipes, elbows and valves are severely damaged with debris on the ground and dangling pieces visible.

Floors 4 to 18

On the floors above the dome, pipes are present in all the office areas. These pipes run along the wall and are in good condition. The pipes have lagging painted and the ends are covered with metal shield ends. Only two damaged pipes were found in the office areas, one on the fourth floor with an exposed end and the other on the 13th floor in the judges office with one severely damaged.

The bathrooms off the elevator have ACM insulated pipes that are painted over. The only areas exposed are the ends. On the seventh floor, there is a hot water tank above the sink with minor damage to its painted lagging.

Floor 19

This floor is the Electrical and Elevator floor. The pipes in this room run along the floor and along the ceiling. The pipes on the floor have been stepped on in areas causing damage to the ACM.

Site Survey and EPA Exposure Assessment Algorithm (cont.)

Floors 20 - 29

Floors 21, 22, and 24 were not available to the surveyor because of security reasons. On the 20th Floor, there are asbestos-containing insulated pipes that were not damaged so they were unable to be sampled.

The Clock room located on the 23rd Floor, has moderately damaged pipes. On Floors 25 through 29, there are also ACM on the pipes. The most severely damaged ones are located on Floors 28 and 29.

An AC insulated boiler stack runs up from Floors 20 to 29. The insulation is covered by a metal shield and is exposed on the 25th, 27th and 29th Floors.

Abatement Plans

Due to the severe and moderate damage, the high friability and the exposed surface area, removal is recommended for the most effective abatement method. The area most needing of the abatement action plan is the basement, especially the boiler room, and the pipe shafts located in the building.

The other areas such as the offices, corridors and bathrooms, have pipes that are in good condition with painted lagging, so the removal abatement action can occur during planned alteration. Since some pipes and elbows have minor damage and exposed ends, a special maintenance program is needed to fix the ACM and an annual visual inspection is needed to ensure that the pipes remain in good condition.

Table I

Bulk Sample Analysis Results

US Custom House

Boston, MA

The following nine material categories were considered when analyzing each bulk sample using Polarized Light Microscopy as described in 40 CFR 763.

- | | |
|-------------------------------|---------------------------|
| 1. Amosite Asbestos | 6. Cellulose/Animal Fiber |
| 2. Chrysotile Asbestos | 7. Cementitious |
| 3. Other Asbestiform Asbestos | 8. Other Non-Fibrous |
| 4. Non-Asbestiform Asbestos | 9. Other Fibrous |
| 5. Fiberglass/Mineral Wool | |

<u>Sample Number</u>	<u>Location/Description</u>	<u>Composition (Percent)</u>
G805-1	Basement, Boiler Room, Boiler Insulation	27 Chrysotile Asbestos 73 Cementitious
G805-2	Basement, Boiler Room, Small Boiler	32 Chrysotile Asbestos 68 Cementitious
G805-3	Basement, Boiler Room, Duct Off Small Boiler	36 Amosite Asbestos 62 Cementitious 2 Other Non-Fibrous
G805-4	Basement, Boiler Room, Duct Off Large Boilers	14 Chrysotile Asbestos 3 Cellulose/Animal Fiber 83 Cementitious
G805-5	Basement, Boiler Room, Ceiling Over Large Boiler	28 Chrysotile Asbestos 72 Cementitious

Table I

Bulk Sample Analysis Results

US Custom House

Boston, MA

<u>Sample Number</u>	<u>Location/Description</u>	<u>Composition (Percent)</u>
G805-6	Basement, Boiler Room, Pipe Sleeve	6 Amosite Asbestos 9 Chrysotile Asbestos 5 Non-Asbestiform Asbestos 80 Cementitious
G805-7	Basement, Boiler Room, Valve Body	22 Chrysotile Asbestos 78 Cementitious
G805-8	Basement, Boiler Room, Elbow Insulation	36 Chrysotile Asbestos 64 Cementitious
G805-9	Basement, Boiler Room, 8" Diameter Steam Pipe Insulation	32 Chrysotile Asbestos 68 Cementitious
G805-10	Basement, Boiler Room, Elbow on Fiberglass Pipe	38 Chrysotile Asbestos 7 Fiberglass/Mineral Wool 3 Cellulose/Animal Fiber 52 Cementitious
G805-11	Basement, Sprinkler Room, Elbow Insulation	6 Amosite Asbestos 3 Chrysotile Asbestos 91 Cementitious
G805-12	Basement, Sprinkler Room, Pipe Sleeve	41 Amosite Asbestos 4 Chrysotile Asbestos 55 Cementitious
G805-13	Basement, Sprinkler Room, Hot Water Tank	62 Chrysotile Asbestos 38 Cementitious

Table I

Bulk Sample Analysis Results

US Custom House

Boston, MA

<u>Sample Number</u>	<u>Location/Description</u>	<u>Composition (Percent)</u>
G805-14	Basement, Sprinkler Room, Pipe Sleeve	8 Chrysotile Asbestos 92 Cellulose/Animal Fiber
G805-15	Basement, Open Area, Elbow Insulation	38 Chrysotile Asbestos 2 Cellulose/Animal Fiber 60 Cementitious
G805-16	Basement, Open Area, Pipe Sleeve	57 Chrysotile Asbestos 38 Cellulose/Animal Fiber 5 Cementitious
G805-17	Basement, Open Area, Outside Boiler Room, 6"diameter Pipe Sleeve	43 Chrysotile Asbestos 57 Cementitious
G805-18	Basement, Hot Water Tank	22 Chrysotile Asbestos 78 Cementitious
G805-19	Basement, Room C Elbow Insulation	16 Amosite Asbestos 18 Chrysotile Asbestos 3 Non-Asbestiform Asbestos 63 Cementitious
G805-20	Basement, Room C Pipe Sleeve	6 Amosite Asbestos 23 Chrysotile Asbestos 5 Non-Asbestiform Asbestos 66 Cementitious
G805-21	Street Level, Lobby Near Stairs Pipe Sleeve	34 Chrysotile Asbestos 66 Cementitious

Table I

Bulk Sample Analysis Results

US Custom House

Boston, MA

<u>Sample Number</u>	<u>Location/Description</u>	<u>Composition (Percent)</u>
G805-22	Street Level, Women's Restroom Pipe Sleeve	10 Chrysotile Asbestos 86 Cellulose/Animal Fiber 4 Other Non-Fibrous
G805-23	First Floor, US Custom Office Pipe Sleeve	8 Chrysotile Asbestos 92 Cellulose/Animal Fiber
G806-1	Fourth Floor, Pipe Shaft, Back Stairs, Pipe Sleeve	14 Chrysotile Asbestos 3 Cellulose/Animal Fiber 83 Cementitious
G806-2	Fourth Floor, Pipe Shaft, Back Stairs, Valve Body	19 Amosite Asbestos 3 Chrysotile Asbestos 2 Non-Asbestiform Asbestos 76 Cementitious
G806-3	Fifth Floor, Women's Restroom, Pipe Shaft, Elbow Insulation	63 Chrysotile Asbestos 37 Cementitious
G806-4	Fifth Floor, Women's Restroom, Pipe Shaft, Pipe Sleeve	41 Chrysotile Asbestos 59 Cementitious
G806-5	Sixth Floor, Pipe Shaft, Back Stairs, Pipe Sleeve	4 Amosite Asbestos 12 Chrysotile Asbestos 2 Cellulose/Animal Fiber 82 Cementitious
G806-6	Seventh Floor, Women's Restroom Hot Water Tank	8 Amosite Asbestos 57 Chrysotile Asbestos 35 Cementitious

Table I

Bulk Sample Analysis Results

US Custom House

Boston, MA

<u>Sample Number</u>	<u>Location/Description</u>	<u>Composition (Percent)</u>
G806-7	Eighth Floor, Men's Restroom, Pipe Shaft, Pipe Sleeve	32 Chrysotile Asbestos 10 Cellulose/Animal Fiber 58 Cementitious
G806-8	Seventh Floor, Pipe Shaft, In Office, Pipe Sleeve	19 Chrysotile Asbestos 3 Cellulose/Animal Fiber 78 Cementitious
G806-9	Seventh Floor, Pipe Shaft, In Office, Pipe Sleeve	22 Chrysotile Asbestos 67 Cellulose/Animal Fiber 11 Cementitious
G806-10	Ninth Floor, Men's Restroom, Pipe Sleeve 4" diameter (same in all the offices)	18 Chrysotile Asbestos 82 Cementitious
G806-11	Tenth Floor, Women's Restroom, Smaller Pipe, Pipe Sleeve	16 Chrysotile Asbestos 80 Cellulose/Animal Fiber 4 Cementitious
G806-12	Eleventh Floor, Men's Restroom, Pipe Sleeve	32 Chrysotile Asbestos 68 Cementitious
G806-13	Twelfth Floor, Pipe Shaft, Back Stairs, Elbow Insulation	<1 Amosite Asbestos 3 Chrysotile Asbestos 38 Fiberglass/Mineral Wool 58 Cementitious

Table I**Bulk Sample Analysis Results****US Custom House****Boston, MA**

<u>Sample Number</u>	<u>Location/Description</u>	<u>Composition (Percent)</u>
G806-14	Twelfth Floor, Pipe Shaft, Back Stairs, Pipe Sleeve	11 Chrysotile Asbestos 84 Cellulose/Animal Fiber 5 Cementitious
G806-15	Thirteenth Floor, Men's Restroom Pipe Shaft, Elbow Insulation	5 Chrysotile Asbestos 23 Fiberglass/Mineral Wool 44 Cementitious 23 Other Non-Fibrous
G806-16	Fifteenth Floor, Women's Restroom Pipe Shaft, Pipe Insulation	2 Chrysotile Asbestos 82 Cellulose/Animal Fiber 16 Cementitious
G807-1	Dome Level, Elbow Insulation	44 Chrysotile Asbestos 41 Other Asbestiform Asbestos 15 Cementitious
G807-2	Dome Level, Valve Body	36 Chrysotile Asbestos 64 Cementitious
G807-3	Dome Level, Pipe Insulation	69 Chrysotile Asbestos 31 Cementitious
G807-4	Dome Level, Pipe Insulation	12 Chrysotile Asbestos 78 Cellulose/Animal Fiber 10 Other Non-Fibrous

Table I**Bulk Sample Analysis Results****US Custom House****Boston, MA**

<u>Sample Number</u>	<u>Location/Description</u>	<u>Composition (Percent)</u>
G807-5	Nineteenth Floor, Electrical Room, Pipe Insulation	57 Chrysotile Asbestos <1 Cellulose/Animal Fiber 43 Cementitious
G807-6	Nineteenth Floor, Electrical Room, Elbow Insulation	4 Amosite Asbestos 12 Chrysotile Asbestos 31 Fiberglass/Mineral Wool 53 Cementitious
G807-7	Nineteenth Floor, Electrical Room, Pipe Insulation	41 Chrysotile Asbestos 5 Cellulose/Animal Fiber 54 Cementitious
G807-8	Twenty-Third Floor, Clock Room Pipe Insulation	61 Chrysotile Asbestos 39 Cementitious
G807-9	Twenty-Third Floor, Clock Room Pipe Insulation	6 Chrysotile Asbestos 71 Cellulose/Animal Fiber 23 Cementitious
G807-10	Twenty-Fifth Floor, Boiler Stack Room, Boiler Insulation	76 Chrysotile Asbestos 24 Cementitious
G807-11	Twenty-Sixth Floor, Pipe Insulation	12 Amosite Asbestos 39 Chrysotile Asbestos 49 Cementitious

Table I

Bulk Sample Analysis Results

US Custom House

Boston, MA

<u>Sample Number</u>	<u>Location/Description</u>	<u>Composition (Percent)</u>
G807-12	Twenty-Seventh Floor, Boiler Stack Insulation	53 Chrysotile Asbestos 47 Cementitious
G807-13	Twenty-Eighth Floor, Elbow Insulation	49 Chrysotile Asbestos 21 Fiberglass/Mineral Wool 4 Cellulose/Animal Fiber 26 Cementitious
G807-14	Twenty-Ninth Floor, Pipe Insulation	2 Chrysotile Asbestos 76 Cellulose/Animal Fiber 12 Cementitious
G807-15	Seventeenth Floor, Pipe Shaft, Back Stairs, Pipe Insulation	52 Chrysotile Asbestos 48 Cementitious
G807-16	Fourteenth Floor, Men's Restroom, Pipe Shaft, Pipe Insulation	36 Chrysotile Asbestos 59 Cellulose/Animal Fiber 5 Cementitious
G807-17	Thirteenth Floor, Judge's Room, Pipe Insulation	78 Chrysotile Asbestos 22 Cementitious
G807-18	Sixteenth Floor, Women's Restroom, Pipe Insulation	53 Chrysotile Asbestos 47 Cementitious

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Boiler Room, Boiler InsulationDate of Assessment: 08/05/86Sample Number: G805-1

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Boiler Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Boiler Room, Small BoilerDate of Assessment: 08/05/86Sample Number: G805-2

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Small Boiler

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Boiler Room, Duct Off Small BoilerDate of Assessment: 08/05/86Sample Number: G805-3

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

<u>Type of Material</u>	<u>Exposed Surface Area</u>
☐ Fireproofing/insulation	☐ Material not exposed
☐ Acoustical plaster	☐ 10% or less exposed
☒ Other: <u>Duct Off Small Boiler</u>	☒ Greater than 10% exposed
<u>Friability</u>	<u>Accessibility</u>
☐ Non-friable	☐ Not accessible
☒ Friable	☒ Rarely accessible
	☐ Accessible
<u>Damage or Deterioration</u>	<u>Activity and Movement</u>
☐ No damage or deterioration	☐ None or low activity
☐ Moderate damage or deterioration	☒ High activity
☒ Severe damage or deterioration	☐ Moderate activity
<u>Water Damage</u>	<u>Air Plenum</u>
☒ No water damage	☒ No plenum or direct airstream
☐ Minor water damage	☐ Plenum or direct airstream present
☐ Major water damage	
<u>Pipe or Boiler Insulation</u>	<u>EPS Site Ranking</u>
☐ Not present	☐ Rank 1 ☐ Rank 3
☐ Present but not damaged	☐ Rank 2 ☒ Rank 4
☒ Present and damaged	

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

<u>Type of Action</u>	<u>When Recommended</u>
☒ Removal	☐ During planned alteration, or
☐ Encapsulation	☒ Abatement action needed sooner
☐ Enclosure	
☐ Abatement not needed	

b. Precautionary Controls

<u>Maintenance & Operation</u>	<u>Visual Inspection and Air Monitoring</u>
☐ Special maintenance	☐ Monthly
☐ Special cleaning	☐ Quarterly
☐ Special alteration & demolition	☐ Annually
☒ Controls not needed	
☐ Other _____	

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Boiler Room, Duct Off Large BoilersDate of Assessment: 08/05/86Sample Number: G805-4

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Duct Off Large Boilers

Exposed Surface Area
☐ Material not exposed
☐ 10% or less exposed
☒ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Boiler Room, Ceiling Over Large BoilerDate of Assessment: 08/05/86Sample Number: G805-5

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Trowel-on Ceiling

Exposed Surface Area
☐ Material not exposed
☐ 10% or less exposed
☒ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Boiler Room, Pipe SleeveDate of Assessment: 08/05/86Sample Number: G805-6

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

<u>Type of Material</u>	<u>Exposed Surface Area</u>
☐ Fireproofing/insulation	☐ Material not exposed
☐ Acoustical plaster	☒ 10% or less exposed
☒ Other: <u>Pipe Sleeve</u>	☐ Greater than 10% exposed

<u>Friability</u>	<u>Accessibility</u>
☐ Non-friable	☐ Not accessible
☒ Friable	☒ Rarely accessible
	☐ Accessible

<u>Damage or Deterioration</u>	<u>Activity and Movement</u>
☐ No damage or deterioration	☐ None or low activity
☐ Moderate damage or deterioration	☒ High activity
☒ Severe damage or deterioration	☐ Moderate activity

<u>Water Damage</u>	<u>Air Plenum</u>
☒ No water damage	☒ No plenum or direct airstream
☐ Minor water damage	☐ Plenum or direct airstream
☐ Major water damage	☐ present

<u>Pipe or Boiler Insulation</u>	<u>EPS Site Ranking</u>
☐ Not present	☐ Rank 1 ☐ Rank 3
☐ Present but not damaged	☐ Rank 2 ☒ Rank 4
☒ Present and damaged	

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

<u>Type of Action</u>	<u>When Recommended</u>
☒ Removal	☐ During planned alteration, or
☐ Encapsulation	☒ Abatement action needed sooner
☐ Enclosure	
☐ Abatement not needed	

b. Precautionary Controls

<u>Maintenance & Operation</u>	<u>Visual Inspection and Air Monitoring</u>
☐ Special maintenance	☐ Monthly
☐ Special cleaning	☐ Quarterly
☐ Special alteration & demolition	☐ Annually
☒ Controls not needed	
☐ Other _____	

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Boiler Room, Valve BodyDate of Assessment: 08/05/86Sample Number: G805-7

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Valve Body

Exposed Surface Area
☐ Material not exposed
☐ 10% or less exposed
☒ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Boiler Room, Elbow InsulationDate of Assessment: 08/05/86Sample Number: G805-8

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Elbow Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAOO12ZZ US Custom House, McKinley Square, Boston, MALocation in Building: Basement, Boiler Room, 8" diameter, Steam Pipe InsulationDate of Assessment: 08/05/86Sample Number: G805-9

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Steam Pipe Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Boiler Room, Elbow on Fiberglass PipeDate of Assessment: 08/05/86Sample Number: G805-10

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

<u>Type of Material</u>	<u>Exposed Surface Area</u>
☐ Fireproofing/insulation	☐ Material not exposed
☐ Acoustical plaster	☒ 10% or less exposed
☒ Other: <u>Elbow on Fiberglass</u>	☐ Greater than 10% exposed
<u>Pipe</u>	
<u>Friability</u>	<u>Accessibility</u>
☐ Non-friable	☐ Not accessible
☒ Friable	☒ Rarely accessible
	☐ Accessible
<u>Damage or Deterioration</u>	<u>Activity and Movement</u>
☐ No damage or deterioration	☐ None or low activity
☒ Moderate damage or deterioration	☒ High activity
☐ Severe damage or deterioration	☐ Moderate activity
<u>Water Damage</u>	<u>Air Plenum</u>
☒ No water damage	☒ No plenum or direct airstream
☐ Minor water damage	☐ Plenum or direct airstream
☐ Major water damage	☐ present
<u>Pipe or Boiler Insulation</u>	<u>EPS Site Ranking</u>
☐ Not present	☐ Rank 1 ☐ Rank 3
☐ Present but not damaged	☐ Rank 2 ☒ Rank 4
☒ Present and damaged	

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

<u>Type of Action</u>	<u>When Recommended</u>
☒ Removal	☐ During planned alteration, or
☐ Encapsulation	☒ Abatement action needed sooner
☐ Enclosure	
☐ Abatement not needed	

b. Precautionary Controls

<u>Maintenance & Operation</u>	<u>Visual Inspection and Air Monitoring</u>
☐ Special maintenance	☐ Monthly
☐ Special cleaning	☐ Quarterly
☐ Special alteration & demolition	☐ Annually
☒ Controls not needed	
☐ Other _____	

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Sprinkler Room, Elbow InsulationDate of Assessment: 08/05/86Sample Number: G805-11

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

<u>Type of Material</u>	<u>Exposed Surface Area</u>
☐ Fireproofing/insulation	☐ Material not exposed
☐ Acoustical plaster	☒ 10% or less exposed
☒ Other: <u>Elbow Insulation</u>	☐ Greater than 10% exposed
<u>Friability</u>	<u>Accessibility</u>
☐ Non-friable	☐ Not accessible
☒ Friable	☒ Rarely accessible
	☐ Accessible
<u>Damage or Deterioration</u>	<u>Activity and Movement</u>
☐ No damage or deterioration	☐ None or low activity
☒ Moderate damage or deterioration	☒ High activity
☐ Severe damage or deterioration	☐ Moderate activity
<u>Water Damage</u>	<u>Air Plenum</u>
☒ No water damage	☐ No plenum or direct airstream
☐ Minor water damage	☒ Plenum or direct airstream
☐ Major water damage	present
<u>Pipe or Boiler Insulation</u>	<u>EPS Site Ranking</u>
☐ Not present	☐ Rank 1 ☐ Rank 3
☐ Present but not damaged	☐ Rank 2 ☒ Rank 4
☒ Present and damaged	

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

<u>Type of Action</u>	<u>When Recommended</u>
☒ Removal	☐ During planned alteration, or
☐ Encapsulation	☒ Abatement action needed sooner
☐ Enclosure	
☐ Abatement not needed	

b. Precautionary Controls

<u>Maintenance & Operation</u>	<u>Visual Inspection and Air Monitoring</u>
☐ Special maintenance	☐ Monthly
☐ Special cleaning	☐ Quarterly
☐ Special alteration & demolition	☐ Annually
☒ Controls not needed	
☐ Other _____	

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Sprinkler Room, Pipe SleeveDate of Assessment: 08/05/86Sample Number: G805-12

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☐ No water damage
☒ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Sprinkler RoomDate of Assessment: 08/05/86Sample Number: G805-13

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Hot Water Tank

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Sprinkler Room, Pipe SleeveDate of Assessment: 08/05/86Sample Number: G805-14

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material☐ Fireproofing/insulation☐ Acoustical plaster☒ Other: Pipe InsulationExposed Surface Area☐ Material not exposed☒ 10% or less exposed☐ Greater than 10% exposedFriability☐ Non-friable☒ FriableAccessibility☐ Not accessible☒ Rarely accessible☐ AccessibleDamage or Deterioration☐ No damage or deterioration☒ Moderate damage or deterioration☐ Severe damage or deteriorationActivity and Movement☐ None or low activity☒ High activity☐ Moderate activityWater Damage☐ No water damage☒ Minor water damage☐ Major water damageAir Plenum☐ No plenum or direct airstream☒ Plenum or direct airstream presentPipe or Boiler Insulation☐ Not present☐ Present but not damaged☒ Present and damagedEPS Site Ranking☐ Rank 1 ☐ Rank 3☐ Rank 2 ☒ Rank 4**2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:****a. Abatement Actions**Type of Action☒ Removal☐ Encapsulation☐ Enclosure☐ Abatement not neededWhen Recommended☐ During planned alteration, or☒ Abatement action needed sooner**b. Precautionary Controls**Maintenance & Operation☐ Special maintenance☐ Special cleaning☐ Special alteration & demolition☒ Controls not needed☐ Other _____Visual Inspection and Air Monitoring☐ Monthly☐ Quarterly☐ AnnuallyAssessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Open Area, Elbow InsulationDate of Assessment: 08/05/86Sample Number: G805-15

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Elbow Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Open Area, Pipe SleeveDate of Assessment: 08/05/86Sample Number: G805-16

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORM

Bldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MA
 Location in Building: Basement, Open Area, Outside Boiler Room, Pipe Sleeve 6" diameter
 Date of Assessment: 08/05/86 Sample Number: G805-17

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Sleeve

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen Raposa

Title: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Hot Water Tank RoomDate of Assessment: 08/05/86Sample Number: G805-18

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material☐ Fireproofing/insulation☐ Acoustical plaster☒ Other: Hot Water TankExposed Surface Area☐ Material not exposed☒ 10% or less exposed☐ Greater than 10% exposedFriability☐ Non-friable☒ FriableAccessibility☐ Not accessible☒ Rarely accessible☐ AccessibleDamage or Deterioration☐ No damage or deterioration☐ Moderate damage or deterioration☒ Severe damage or deteriorationActivity and Movement☐ None or low activity☒ High activity☐ Moderate activityWater Damage☒ No water damage☐ Minor water damage☐ Major water damageAir Plenum☒ No plenum or direct airstream☐ Plenum or direct airstream presentPipe or Boiler Insulation☐ Not present☐ Present but not damaged☒ Present and damagedEPS Site Ranking☐ Rank 1 ☐ Rank 3☐ Rank 2 ☒ Rank 4**2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:****a. Abatement Actions**Type of Action☒ Removal☐ Encapsulation☐ Enclosure☐ Abatement not neededWhen Recommended☐ During planned alteration, or☒ Abatement action needed sooner**b. Precautionary Controls**Maintenance & Operation☐ Special maintenance☐ Special cleaning☐ Special alteration & demolition☒ Controls not needed☐ Other _____Visual Inspection and Air Monitoring☐ Monthly☐ Quarterly☐ AnnuallyAssessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Room C, BasementDate of Assessment: 08/05/86Sample Number: G805-19

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material☐ Fireproofing/insulation☐ Acoustical plaster☒ Other: Elbow InsulationExposed Surface Area☐ Material not exposed☒ 10% or less exposed☐ Greater than 10% exposedFriability☐ Non-friable☒ FriableAccessibility☐ Not accessible☒ Rarely accessible☐ AccessibleDamage or Deterioration☐ No damage or deterioration☐ Moderate damage or deterioration☒ Severe damage or deteriorationActivity and Movement☐ None or low activity☒ High activity☐ Moderate activityWater Damage☐ No water damage☒ Minor water damage☐ Major water damageAir Plenum☒ No plenum or direct airstream☐ Plenum or direct airstream presentPipe or Boiler Insulation☐ Not present☐ Present but not damaged☒ Present and damagedEPS Site Ranking☐ Rank 1 ☐ Rank 3☐ Rank 2 ☒ Rank 4**2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:****a. Abatement Actions**Type of Action☒ Removal☐ Encapsulation☐ Enclosure☐ Abatement not neededWhen Recommended☐ During planned alteration, or☒ Abatement action needed sooner**b. Precautionary Controls**Maintenance & Operation☐ Special maintenance☐ Special cleaning☐ Special alteration & demolition☒ Controls not needed☐ Other _____Visual Inspection and Air Monitoring☐ Monthly☐ Quarterly☐ AnnuallyAssessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Basement, Room CDate of Assessment: 08/05/86Sample Number: G805-20

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material☐ Fireproofing/insulation☐ Acoustical plaster☒ Other: Pipe InsulationExposed Surface Area☐ Material not exposed☒ 10% or less exposed☐ Greater than 10% exposedFriability☐ Non-friable☒ FriableAccessibility☐ Not accessible☒ Rarely accessible☐ AccessibleDamage or Deterioration☐ No damage or deterioration☒ Moderate damage or deterioration☐ Severe damage or deteriorationActivity and Movement☐ None or low activity☒ High activity☐ Moderate activityWater Damage☒ No water damage☐ Minor water damage☐ Major water damageAir Plenum☒ No plenum or direct airstream☐ Plenum or direct airstream presentPipe or Boiler Insulation☐ Not present☐ Present but not damaged☒ Present and damagedEPS Site Ranking☐ Rank 1 ☐ Rank 3☐ Rank 2 ☒ Rank 4**2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:****a. Abatement Actions**Type of Action☒ Removal☐ Encapsulation☐ Enclosure☐ Abatement not neededWhen Recommended☐ During planned alteration, or☒ Abatement action needed sooner**b. Precautionary Controls**Maintenance & Operation☐ Special maintenance☐ Special cleaning☐ Special alteration & demolition☒ Controls not needed☐ Other _____Visual Inspection and Air Monitoring☐ Monthly☐ Quarterly☐ AnnuallyAssessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Street Level LobbyDate of Assessment: 08/05/86Sample Number: G805-21

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Sleeve

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☐ Rarely accessible
☒ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☒ During planned alteration, or
☐ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☒ Special maintenance
☒ Special cleaning
☐ Special alteration & demolition
☐ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☒ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Street Level, Woman's RestroomDate of Assessment: 08/05/86Sample Number: G805-22

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Sleeve

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☐ Rarely accessible
☒ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☒ During planned alteration, or
☐ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☒ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☐ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☒ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: First Floor, US Custom OfficeDate of Assessment: 08/05/86Sample Number: G805-23

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Sleeve

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☐ Rarely accessible
☒ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☐ High activity
☒ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☒ During planned alteration, or
☐ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☒ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☐ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☒ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Fourth Floor, Pipe Shaft, Back StairsDate of Assessment: 08/06/86Sample Number: G806-1

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Sleeve

Exposed Surface Area
☐ Material not exposed
☐ 10% or less exposed
☒ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☐ No water damage
☒ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Fourth Floor, Pipe Shaft, Back StairsDate of Assessment: 08/06/86Sample Number: G806-2

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Valve Body

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☐ No water damage
☒ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORM

Bldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MA

Location in Building: Fifth Floor, Women's Restroom, Pipe Shaft

Date of Assessment: 08/06/86

Sample Number: G806-3

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Elbow Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

a. Abatement Actions

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen Raposa

Title: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Fifth Floor, Women's Restroom, Pipe ShaftDate of Assessment: 08/06/86Sample Number: G806-4

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Sleeve

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Sixth Floor, Pipe Shaft, Back StairsDate of Assessment: 08/06/86Sample Number: G806-5

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material☐ Fireproofing/insulation☐ Acoustical plaster☒ Other: Pipe SleeveExposed Surface Area☐ Material not exposed☒ 10% or less exposed☐ Greater than 10% exposedFriability☐ Non-friable☒ FriableAccessibility☐ Not accessible☒ Rarely accessible☐ AccessibleDamage or Deterioration☐ No damage or deterioration☐ Moderate damage or deterioration☒ Severe damage or deteriorationActivity and Movement☐ None or low activity☒ High activity☐ Moderate activityWater Damage☒ No water damage☐ Minor water damage☐ Major water damageAir Plenum☐ No plenum or direct airstream☒ Plenum or direct airstream presentPipe or Boiler Insulation☐ Not present☐ Present but not damaged☒ Present and damagedEPS Site Ranking☐ Rank 1 ☐ Rank 3☐ Rank 2 ☒ Rank 4**2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:****a. Abatement Actions**Type of Action☒ Removal☐ Encapsulation☐ Enclosure☐ Abatement not neededWhen Recommended☐ During planned alteration, or☒ Abatement action needed sooner**b. Precautionary Controls**Maintenance & Operation☐ Special maintenance☐ Special cleaning☐ Special alteration & demolition☒ Controls not needed☐ Other _____Visual Inspection and Air Monitoring☐ Monthly☐ Quarterly☐ AnnuallyAssessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Seventh Floor, Women's RoomDate of Assessment: 08/06/86Sample Number: G806-6

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Hot Water Tank

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☐ Rarely accessible
☒ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☒ During planned alteration, or
☐ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☒ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☐ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☒ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Eighth Floor, Men's Room, Pipe ShaftDate of Assessment: 08/06/86Sample Number: G806-7

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Sleeve

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Seventh Floor, Pipe Shaft, In OfficeDate of Assessment: 08/06/86Sample Number: G806-8

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material☐ Fireproofing/insulation☐ Acoustical plaster☒ Other: Pipe ShaftExposed Surface Area☐ Material not exposed☒ 10% or less exposed☐ Greater than 10% exposedFriability☐ Non-friable☒ FriableAccessibility☐ Not accessible☒ Rarely accessible☐ AccessibleDamage or Deterioration☐ No damage or deterioration☐ Moderate damage or deterioration☒ Severe damage or deteriorationActivity and Movement☐ None or low activity☐ High activity☒ Moderate activityWater Damage☒ No water damage☐ Minor water damage☐ Major water damageAir Plenum☐ No plenum or direct airstream☒ Plenum or direct airstream presentPipe or Boiler Insulation☐ Not present☐ Present but not damaged☒ Present and damagedEPS Site Ranking☐ Rank 1 ☐ Rank 3☐ Rank 2 ☒ Rank 4**2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:****a. Abatement Actions**Type of Action☒ Removal☐ Encapsulation☐ Enclosure☐ Abatement not neededWhen Recommended☐ During planned alteration, or☒ Abatement action needed sooner**b. Precautionary Controls**Maintenance & Operation☐ Special maintenance☐ Special cleaning☐ Special alteration & demolition☒ Controls not needed☐ Other _____Visual Inspection and Air Monitoring☐ Monthly☐ Quarterly☐ AnnuallyAssessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Seventh Floor, Pipe Shaft, In OfficeDate of Assessment: 08/06/86Sample Number: G806-9

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material☐ Fireproofing/insulation☐ Acoustical plaster☒ Other: Pipe SleeveExposed Surface Area☐ Material not exposed☒ 10% or less exposed☐ Greater than 10% exposedFriability☐ Non-friable☒ FriableAccessibility☐ Not accessible☒ Rarely accessible☐ AccessibleDamage or Deterioration☐ No damage or deterioration☐ Moderate damage or deterioration☒ Severe damage or deteriorationActivity and Movement☐ None or low activity☒ High activity☐ Moderate activityWater Damage☒ No water damage☐ Minor water damage☐ Major water damageAir Plenum☐ No plenum or direct airstream☒ Plenum or direct airstream presentPipe or Boiler Insulation☐ Not present☐ Present but not damaged☒ Present and damagedEPS Site Ranking☐ Rank 1 ☐ Rank 3☐ Rank 2 ☒ Rank 4**2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:****a. Abatement Actions**Type of Action☒ Removal☐ Encapsulation☐ Enclosure☐ Abatement not neededWhen Recommended☐ During planned alteration, or☒ Abatement action needed sooner**b. Precautionary Controls**Maintenance & Operation☐ Special maintenance☐ Special cleaning☐ Special alteration & demolition☒ Controls not needed☐ Other _____Visual Inspection and Air Monitoring☐ Monthly☐ Quarterly☐ AnnuallyAssessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Ninth Floor, Men's RoomDate of Assessment: 08/06/86Sample Number: G806-10

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Sleeve

Exposed Surface Area
☐ Material not exposed
☐ 10% or less exposed
☒ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☐ Rarely accessible
☒ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☒ During planned alteration, or
☐ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☒ Special maintenance
☒ Special cleaning
☐ Special alteration & demolition
☐ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☒ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Tenth Floor, Women's RoomDate of Assessment: 08/06/86Sample Number: G806-11

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Sleeve

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☐ Rarely accessible
☒ Accessible

Damage or Deterioration
☒ No damage or deterioration
☐ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☐ High activity
☒ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☒ Rank 3
☐ Rank 2 ☐ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☒ During planned alteration, or
☐ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☒ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☐ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☒ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Eleventh Floor, Men's RoomDate of Assessment: 08/06/86Sample Number: G806-12

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material☐ Fireproofing/insulation☐ Acoustical plaster☒ Other: Pipe SleeveExposed Surface Area☐ Material not exposed☒ 10% or less exposed☐ Greater than 10% exposedFriability☐ Non-friable☒ FriableAccessibility☐ Not accessible☐ Rarely accessible☒ AccessibleDamage or Deterioration☐ No damage or deterioration☒ Moderate damage or deterioration☐ Severe damage or deteriorationActivity and Movement☐ None or low activity☒ High activity☐ Moderate activityWater Damage☒ No water damage☐ Minor water damage☐ Major water damageAir Plenum☐ No plenum or direct airstream☒ Plenum or direct airstream presentPipe or Boiler Insulation☐ Not present☒ Present but not damaged☐ Present and damagedEPS Site Ranking☐ Rank 1 ☐ Rank 3☐ Rank 2 ☒ Rank 4**2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:****a. Abatement Actions**Type of Action☒ Removal☐ Encapsulation☐ Enclosure☐ Abatement not neededWhen Recommended☒ During planned alteration, or☐ Abatement action needed sooner**b. Precautionary Controls**Maintenance & Operation☒ Special maintenance☐ Special cleaning☐ Special alteration & demolition☐ Controls not needed☐ Other _____Visual Inspection and Air Monitoring☐ Monthly☐ Quarterly☒ AnnuallyAssessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Twelfth Floor, Pipe Shaft, Back StairsDate of Assessment: 08/06/86Sample Number: G806-13

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material

- ☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Elbow Insulation

Exposed Surface Area

- ☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Eriability

- ☐ Non-friable
☒ Friable

Accessibility

- ☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration

- ☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement

- ☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage

- ☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum

- ☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation

- ☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking

- ☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**Type of Action

- ☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended

- ☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary ControlsMaintenance & Operation

- ☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring

- ☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Twelfth Floor, Pipe Shaft, Back StairsDate of Assessment: 08/06/86Sample Number: G806-14

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Thirteenth Floor, Pipe Shaft, Men's RestroomDate of Assessment: 08/06/86Sample Number: G806-15

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Elbow Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Fifteenth Floor, Women's Restroom, Pipe ShaftDate of Assessment: 08/06/86Sample Number: G806-16

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material

- ☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Insulation

Exposed Surface Area

- ☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability

- ☐ Non-friable
☒ Friable

Accessibility

- ☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration

- ☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement

- ☐ None or low activity
☐ High activity
☒ Moderate activity

Water Damage

- ☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum

- ☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation

- ☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking

- ☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**Type of Action

- ☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended

- ☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary ControlsMaintenance & Operation

- ☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring

- ☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORM

Bldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MA

Location in Building: Dome Level

Date of Assessment: 08/07/86

Sample Number: G807-1

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

<u>Type of Material</u>	<u>Exposed Surface Area</u>
☐ Fireproofing/insulation	☐ Material not exposed
☐ Acoustical plaster	☒ 10% or less exposed
☒ Other: <u>Elbow Insulation</u>	☐ Greater than 10% exposed
<u>Friability</u>	<u>Accessibility</u>
☐ Non-friable	☐ Not accessible
☒ Friable	☒ Rarely accessible
	☐ Accessible
<u>Damage or Deterioration</u>	<u>Activity and Movement</u>
☐ No damage or deterioration	☐ None or low activity
☐ Moderate damage or deterioration	☒ High activity
☒ Severe damage or deterioration	☐ Moderate activity
<u>Water Damage</u>	<u>Air Plenum</u>
☒ No water damage	☒ No plenum or direct airstream
☐ Minor water damage	☐ Plenum or direct airstream present
☐ Major water damage	
<u>Pipe or Boiler Insulation</u>	<u>EPS Site Ranking</u>
☐ Not present	☐ Rank 1 ☐ Rank 3
☐ Present but not damaged	☐ Rank 2 ☒ Rank 4
☒ Present and damaged	

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

a. Abatement Actions

<u>Type of Action</u>	<u>When Recommended</u>
☒ Removal	☐ During planned alteration, or
☐ Encapsulation	☒ Abatement action needed sooner
☐ Enclosure	
☐ Abatement not needed	

b. Precautionary Controls

<u>Maintenance & Operation</u>	<u>Visual Inspection and Air Monitoring</u>
☐ Special maintenance	☐ Monthly
☐ Special cleaning	☐ Quarterly
☐ Special alteration & demolition	☐ Annually
☒ Controls not needed	
☐ Other _____	

Assessor: Maureen Raposa

Title: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Dome LevelDate of Assessment: 08/07/86Sample Number: G807-2

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Valve Body

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Dome LevelDate of Assessment: 08/07/86Sample Number: G807-3

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material☐ Fireproofing/insulation☐ Acoustical plaster☒ Other: Pipe SleeveExposed Surface Area☐ Material not exposed☒ 10% or less exposed☐ Greater than 10% exposedFriability☐ Non-friable☒ FriableAccessibility☐ Not accessible☒ Rarely accessible☐ AccessibleDamage or Deterioration☐ No damage or deterioration☐ Moderate damage or deterioration☒ Severe damage or deteriorationActivity and Movement☐ None or low activity☒ High activity☐ Moderate activityWater Damage☒ No water damage☐ Minor water damage☐ Major water damageAir Plenum☒ No plenum or direct airstream☐ Plenum or direct airstream presentPipe or Boiler Insulation☐ Not present☐ Present but not damaged☒ Present and damagedEPS Site Ranking☐ Rank 1 ☐ Rank 3☐ Rank 2 ☒ Rank 4**2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:****a. Abatement Actions**Type of Action☒ Removal☐ Encapsulation☐ Enclosure☐ Abatement not neededWhen Recommended☐ During planned alteration, or☒ Abatement action needed sooner**b. Precautionary Controls**Maintenance & Operation☐ Special maintenance☐ Special cleaning☐ Special alteration & demolition☒ Controls not needed☐ Other _____Visual Inspection and Air Monitoring☐ Monthly☐ Quarterly☐ AnnuallyAssessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Dome LevelDate of Assessment: 08/07/86Sample Number: G807-4

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Insulation

Exposed Surface Area
☐ Material not exposed
☐ 10% or less exposed
☒ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☒ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☐ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Nineteenth Floor, Electrical RoomDate of Assessment: 08/07/86Sample Number: G807-5

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material

- ☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Insulation

Exposed Surface Area

- ☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability

- ☐ Non-friable
☒ Friable

Accessibility

- ☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration

- ☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement

- ☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage

- ☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum

- ☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation

- ☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking

- ☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**Type of Action

- ☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended

- ☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary ControlsMaintenance & Operation

- ☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring

- ☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Nineteenth Floor, Electrical RoomDate of Assessment: 08/07/86Sample Number: G807-6

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Elbow Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Nineteenth Floor, Electrical FloorDate of Assessment: 08/07/86Sample Number: G807-7

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material☐ Fireproofing/insulation☐ Acoustical plaster☒ Other: 8" Pipe SleeveExposed Surface Area☐ Material not exposed☒ 10% or less exposed☐ Greater than 10% exposedFriability☐ Non-friable☒ FriableAccessibility☐ Not accessible☒ Rarely accessible☐ AccessibleDamage or Deterioration☐ No damage or deterioration☐ Moderate damage or deterioration☒ Severe damage or deteriorationActivity and Movement☐ None or low activity☒ High activity☐ Moderate activityWater Damage☒ No water damage☐ Minor water damage☐ Major water damageAir Plenum☐ No plenum or direct airstream☒ Plenum or direct airstream presentPipe or Boiler Insulation☐ Not present☐ Present but not damaged☒ Present and damagedEPS Site Ranking☐ Rank 1 ☐ Rank 3☐ Rank 2 ☒ Rank 4**2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:****a. Abatement Actions**Type of Action☒ Removal☐ Encapsulation☐ Enclosure☐ Abatement not neededWhen Recommended☐ During planned alteration, or☒ Abatement action needed sooner**b. Precautionary Controls**Maintenance & Operation☐ Special maintenance☐ Special cleaning☐ Special alteration & demolition☒ Controls not needed☐ Other _____Visual Inspection and Air Monitoring☐ Monthly☐ Quarterly☐ AnnuallyAssessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Twenty-third Floor, Clock RoomDate of Assessment: 08/07/86Sample Number: G807-8

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☐ High activity
☒ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☒ During planned alteration, or
☐ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☒ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☐ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☒ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Twenty-Third Floor, Clock RoomDate of Assessment: 08/07/86Sample Number: G807-9

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material☐ Fireproofing/insulation☐ Acoustical plaster☒ Other: Pipe InsulationExposed Surface Area☐ Material not exposed☒ 10% or less exposed☐ Greater than 10% exposedFriability☐ Non-friable☒ FriableAccessibility☐ Not accessible☒ Rarely accessible☐ AccessibleDamage or Deterioration☐ No damage or deterioration☒ Moderate damage or deterioration☐ Severe damage or deteriorationActivity and Movement☐ None or low activity☐ High activity☒ Moderate activityWater Damage☒ No water damage☐ Minor water damage☐ Major water damageAir Plenum☐ No plenum or direct airstream☒ Plenum or direct airstream presentPipe or Boiler Insulation☐ Not present☐ Present but not damaged☒ Present and damagedEPS Site Ranking☐ Rank 1 ☐ Rank 3☐ Rank 2 ☒ Rank 4**2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:****a. Abatement Actions**Type of Action☒ Removal☐ Encapsulation☐ Enclosure☐ Abatement not neededWhen Recommended☒ During planned alteration, or☐ Abatement action needed sooner**b. Precautionary Controls**Maintenance & Operation☒ Special maintenance☐ Special cleaning☐ Special alteration & demolition☐ Controls not needed☐ Other _____Visual Inspection and Air Monitoring☐ Monthly☐ Quarterly☒ AnnuallyAssessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Twenty-Fifth Floor, Boiler Stack RoomDate of Assessment: 08/07/86Sample Number: G807-10

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Boiler Stack

Exposed Surface Area
☐ Material not exposed
☐ 10% or less exposed
☒ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☒ During planned alteration, or
☐ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☒ Special maintenance
☒ Special cleaning
☐ Special alteration & demolition
☐ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☒ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Twenty-Sixth FloorDate of Assessment: 08/07/86Sample Number: G807-11

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:Type of Material☐ Fireproofing/insulation☐ Acoustical plaster☒ Other: Pipe SleeveExposed Surface Area☐ Material not exposed☒ 10% or less exposed☐ Greater than 10% exposedFriability☐ Non-friable☒ FriableAccessibility☐ Not accessible☒ Rarely accessible☐ AccessibleDamage or Deterioration☐ No damage or deterioration☒ Moderate damage or deterioration☐ Severe damage or deteriorationActivity and Movement☐ None or low activity☐ High activity☒ Moderate activityWater Damage☒ No water damage☐ Minor water damage☐ Major water damageAir Plenum☒ No plenum or direct airstream☐ Plenum or direct airstream presentPipe or Boiler Insulation☐ Not present☐ Present but not damaged☒ Present and damagedEPS Site Ranking☐ Rank 1 ☐ Rank 3☐ Rank 2 ☒ Rank 4**2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:****a. Abatement Actions**Type of Action☒ Removal☐ Encapsulation☐ Enclosure☐ Abatement not neededWhen Recommended☒ During planned alteration, or☐ Abatement action needed sooner**b. Precautionary Controls**Maintenance & Operation☒ Special maintenance☐ Special cleaning☐ Special alteration & demolition☐ Controls not needed☐ Other _____Visual Inspection and Air Monitoring☐ Monthly☐ Quarterly☒ AnnuallyAssessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Twenty-Seventh FloorDate of Assessment: 08/07/86Sample Number: G807-12

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Boiler Stack Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☒ During planned alteration, or
☐ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☒ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☐ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☒ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Twenty-Eighth FloorDate of Assessment: 08/07/86Sample Number: G807-13

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Elbow Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☒ No plenum or direct airstream
☐ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☒ During planned alteration, or
☐ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☒ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☐ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☒ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Twenty-Ninth FloorDate of Assessment: 08/07/86Sample Number: G807-14

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

<u>Type of Material</u>	<u>Exposed Surface Area</u>
☐ Fireproofing/insulation	☐ Material not exposed
☐ Acoustical plaster	☐ 10% or less exposed
☒ Other: <u>Pipe Insulation</u>	☒ Greater than 10% exposed

<u>Friability</u>	<u>Accessibility</u>
☐ Non-friable	☐ Not accessible
☒ Friable	☒ Rarely accessible
	☐ Accessible

<u>Damage or Deterioration</u>	<u>Activity and Movement</u>
☐ No damage or deterioration	☐ None or low activity
☐ Moderate damage or deterioration	☐ High activity
☒ Severe damage or deterioration	☒ Moderate activity

<u>Water Damage</u>	<u>Air Plenum</u>
☐ No water damage	☐ No plenum or direct airstream
☒ Minor water damage	☒ Plenum or direct airstream present
☐ Major water damage	

<u>Pipe or Boiler Insulation</u>	<u>EPS Site Ranking</u>
☐ Not present	☐ Rank 1 ☐ Rank 3
☐ Present but not damaged	☐ Rank 2 ☒ Rank 4
☒ Present and damaged	

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

<u>Type of Action</u>	<u>When Recommended</u>
☒ Removal	☐ During planned alteration, or
☐ Encapsulation	☒ Abatement action needed sooner
☐ Enclosure	
☐ Abatement not needed	

b. Precautionary Controls

<u>Maintenance & Operation</u>	<u>Visual Inspection and Air Monitoring</u>
☐ Special maintenance	☐ Monthly
☐ Special cleaning	☐ Quarterly
☐ Special alteration & demolition	☐ Annually
☒ Controls not needed	
☐ Other _____	

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Seventeenth Floor, Pipe Shaft, Back StairsDate of Assessment: 08/07/86Sample Number: G807-15

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☒ Rarely accessible
☐ Accessible

Damage or Deterioration
☐ No damage or deterioration
☐ Moderate damage or deterioration
☒ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☐ During planned alteration, or
☒ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☐ Special maintenance
☐ Special cleaning
☐ Special alteration & demolition
☒ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☐ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORM

Bldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MA
 Location in Building: Fourteenth Floor, Men's Room, Pipe Shaft
 Date of Assessment: 08/07/86 Sample Number: G807-16

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

<u>Type of Material</u>	<u>Exposed Surface Area</u>
☐ Fireproofing/insulation	☐ Material not exposed
☐ Acoustical plaster	☒ 10% or less exposed
☒ Other: <u>Pipe Insulation</u>	☐ Greater than 10% exposed
<u>Friability</u>	<u>Accessibility</u>
☐ Non-friable	☐ Not accessible
☒ Friable	☒ Rarely accessible
	☐ Accessible
<u>Damage or Deterioration</u>	<u>Activity and Movement</u>
☐ No damage or deterioration	☐ None or low activity
☒ Moderate damage or deterioration	☐ High activity
☐ Severe damage or deterioration	☒ Moderate activity
<u>Water Damage</u>	<u>Air Plenum</u>
☒ No water damage	☐ No plenum or direct airstream
☐ Minor water damage	☒ Plenum or direct airstream present
☐ Major water damage	
<u>Pipe or Boiler Insulation</u>	<u>EPS Site Ranking</u>
☐ Not present	☐ Rank 1 ☐ Rank 3
☐ Present but not damaged	☐ Rank 2 ☒ Rank 4
☒ Present and damaged	

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

a. Abatement Actions

<u>Type of Action</u>	<u>When Recommended</u>
☒ Removal	☐ During planned alteration, or
☐ Encapsulation	☒ Abatement action needed sooner
☐ Enclosure	
☐ Abatement not needed	

b. Precautionary Controls

<u>Maintenance & Operation</u>	<u>Visual Inspection and Air Monitoring</u>
☐ Special maintenance	☐ Monthly
☐ Special cleaning	☐ Quarterly
☐ Special alteration & demolition	☐ Annually
☒ Controls not needed	
☐ Other _____	

Assessor: Maureen Raposa

Title: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORMBldg. Number and Name: MA0012ZZ US Custom House, 8 McKinley Square, Boston, MALocation in Building: Thirteenth Floor, Judge's RoomDate of Assessment: 08/07/86Sample Number: G807-17

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
☐ Fireproofing/insulation
☐ Acoustical plaster
☒ Other: Pipe Insulation

Exposed Surface Area
☐ Material not exposed
☒ 10% or less exposed
☐ Greater than 10% exposed

Friability
☐ Non-friable
☒ Friable

Accessibility
☐ Not accessible
☐ Rarely accessible
☒ Accessible

Damage or Deterioration
☐ No damage or deterioration
☒ Moderate damage or deterioration
☐ Severe damage or deterioration

Activity and Movement
☐ None or low activity
☒ High activity
☐ Moderate activity

Water Damage
☒ No water damage
☐ Minor water damage
☐ Major water damage

Air Plenum
☐ No plenum or direct airstream
☒ Plenum or direct airstream present

Pipe or Boiler Insulation
☐ Not present
☐ Present but not damaged
☒ Present and damaged

EPS Site Ranking
☐ Rank 1 ☐ Rank 3
☐ Rank 2 ☒ Rank 4

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

Type of Action
☒ Removal
☐ Encapsulation
☐ Enclosure
☐ Abatement not needed

When Recommended
☒ During planned alteration, or
☐ Abatement action needed sooner

b. Precautionary Controls

Maintenance & Operation
☒ Special maintenance
☒ Special cleaning
☐ Special alteration & demolition
☐ Controls not needed
☐ Other _____

Visual Inspection and Air Monitoring
☐ Monthly
☐ Quarterly
☒ Annually

Assessor: Maureen RaposaTitle: Industrial Hygiene Specialist

TABLE II

ASBESTOS ASSESSMENT FORM

Bldg. Number and Name: MAO012ZZ US Custom House, 8 McKinley Square, Boston, MA
 Location in Building: Sixteenth Floor
 Date of Assessment: 08/07/86 Sample Number: G807-18

The following represents the best judgement of the assessor at the time of assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

<u>Type of Material</u>	<u>Exposed Surface Area</u>
☐ Fireproofing/insulation	☐ Material not exposed
☐ Acoustical plaster	☒ 10% or less exposed
☒ Other: <u>Pipe Insulation</u>	☐ Greater than 10% exposed

<u>Friability</u>	<u>Accessibility</u>
☐ Non-friable	☐ Not accessible
☒ Friable	☐ Rarely accessible
	☒ Accessible

<u>Damage or Deterioration</u>	<u>Activity and Movement</u>
☐ No damage or deterioration	☐ None or low activity
☒ Moderate damage or deterioration	☒ High activity
☐ Severe damage or deterioration	☐ Moderate activity

<u>Water Damage</u>	<u>Air Plenum</u>
☒ No water damage	☐ No plenum or direct airstream
☐ Minor water damage	☒ Plenum or direct airstream present
☐ Major water damage	

<u>Pipe or Boiler Insulation</u>	<u>EPS Site Ranking</u>
☐ Not present	☐ Rank 1 ☐ Rank 3
☐ Present but not damaged	☐ Rank 2 ☒ Rank 4
☒ Present and damaged	

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:**a. Abatement Actions**

<u>Type of Action</u>	<u>When Recommended</u>
☒ Removal	☒ During planned alteration, or
☐ Encapsulation	☐ Abatement action needed sooner
☐ Enclosure	
☐ Abatement not needed	

b. Precautionary Controls

<u>Maintenance & Operation</u>	<u>Visual Inspection and Air Monitoring</u>
☒ Special maintenance	☐ Monthly
☐ Special cleaning	☐ Quarterly
☐ Special alteration & demolition	☒ Annually
☐ Controls not needed	
☐ Other _____	

Assessor: Maureen Raposa

Title: Industrial Hygiene Specialist

Table III**Summary of Insulation Materials****U.S. Custom House****Boston, MA**

<u>Location</u>	<u>Type</u>	Amount ACM	
		<u>Linear Ft.</u>	<u>Square Ft.</u>
<u>BASEMENT</u>			
Boiler Room	Two Large Boilers		528
	Small Boiler		185
	Duct Off Small Boiler		181
	Ceiling		952
	Duct Off Large Boiler		408
	Pipe Insulation	621	
	Elbow & Fixtures	146	
Sprinkler Room	Hot Water Tank		157
	Pipe Insulation	395	
	Elbows & Fixtures	105	
Bathroom	Pipe Insulation	32	
	Elbows & Fixtures	6	
Open Area	Pipe Insulation	360	
	Elbows & Fixtures	62	
Pipe Shaft	Pipe Insulation	65	
	Elbows & Fixtures	6	

Table III

Summary of Insulation Materials

U.S. Custom House

Boston, MA

<u>Location</u>	<u>Type</u>	Amount ACM	
		<u>Linear Ft.</u>	<u>Square Ft.</u>
Hot Water Tank Room	Hot Water Tank		75
	Pipe Insulation	120	
	Elbows	25	
Room A	Pipe Insulation	66	
	Elbows & Fixtures	4	
Room B	Pipe Insulation	72	
	Elbows & Fixtures	24	
Room C	Pipe Insulation	220	
	Elbows & Fixtures	36	
F.O. Tank #1	Pipe Insulation	120	
	Ebows & Fixtures	8	
F.O. Tank #2	Pipe Insulation	115	
	Elbows & Fixtures	12	
<u>STREET LEVEL</u>			
Main Lobby	Pipe Insulation	36	
	Elbows	9	
Custodial Room	Pipe Insulation	10	
Emergency Exit	Pipe Insulation	10	
Side Entrance	Pipe Insulation	10	

Table III

Summary of Insulation Materials

U.S. Custom House

Boston, MA

<u>Location</u>	<u>Type</u>	Amount ACM	
		<u>Linear Ft.</u>	<u>Square Ft.</u>
Room 2	Pipe Insulation	40	
Room 4	Pipe Insulation	10	
Room 5	Pipe Insulation	10	
Coffee Shop	Pipe Insulation	58	
	Elbows	7	
Men's Lavatory	Pipe Insulation	10	
Women's Lavatory	Pipe Insulation	20	
<u>FIRST FLOOR</u>			
U.S. Customs (Rooms 103-105):			
Vancoor Office	Pipe Insulation	24	
Conference Room	Pipe Insulation	24	
Bathroom	Pipe Insulation	65	
	Elbows & Fixtures	7	
Import Control Office:			
Storage Room	Pipe Insulation	157	
	Elbows & Fixtures	11	
Office Area	Pipe Insulation	72	

Table III

Summary of Insulation Materials

U.S. Custom House

Boston, MA

<u>Location</u>	<u>Type</u>	Amount ACM	
		<u>Linear Ft.</u>	<u>Square Ft.</u>
<u>DOME LEVEL</u>			
Dome Room	Pipe Insulation	1800	
	Elbows & Fixtures	186	
	Valve Body	10	
<u>PIPE SHAFTS (on Floors 4 to 8)</u>			
Backstairs	Pipe Insulation	1675	
	Elbows & Fixtures	25	
Office Area	Pipe Insulation	465	
	Elbows & Fixtures	17	
Restroom off Elevator	Pipe Insulation	1102	
	Elbows & Fixtures	83	
<u>RESTROOMS (Off elevator Floors 4 to 18)</u>			
	Pipe Insulation	736	
	Elbows & Fixtures	103	
	Hot Water Tank (7th)		25
<u>OFFICE AREAS</u>			
4th Floor	Pipe Insulation	150	
	Elbows	8	
5th Floor	Pipe Insulation	132	

Table III**Summary of Insulation Materials****U.S. Custom House****Boston, MA**

<u>Location</u>	<u>Type</u>	Amount ACM	
		<u>Linear Ft.</u>	<u>Square Ft.</u>
6th Floor	Pipe Insulation	144	
7th Floor	Pipe Insulation	90	
8th Floor	Pipe Insulation	140	
9th Floor	Pipe Insulation	132	
10th Floor	Pipe Insulation	132	
11th Floor	Pipe Insulation	132	
12th Floor	Pipe Insulation	132	
13th Floor	Pipe Insulation	108	
14th Floor	Pipe Insulation	120	
15th Floor	Pipe Insulation	156	
16th Floor	Pipe Insulation	108	
17th Floor	Pipe Insulation	76	
18th Floor	Pipe Insulation	126	
	Elbows	2	
<u>19TH FLOOR (Elevator Room)</u>	Pipe Insulation	730	
	Elbows & Fixtures	128	
	Pipe Insulation	80	

Table III

Summary of Insulation Materials

U.S. Custom House

Boston, MA

<u>Location</u>	<u>Type</u>	Amount ACM	
		<u>Linear Ft.</u>	<u>Square Ft.</u>
<u>20TH FLOOR</u>	Pipe Insulation	187	
	Elbows & Fixtures	14	
	Boiler Stack		201
<u>23RD FLOOR (Clock Room)</u>	Pipe Insulation	345	
	Elbows & Fixtures	34	
	Boiler Stack		176
<u>25TH FLOOR</u>	Pipe Insulation	191	
	Elbows & Fixtures	8	
	Boiler Stack		50
<u>TOP OF THE TOWER (Floors 26 to 29)</u>	Pipe Insulation	278	
	Elbows & Fixtures	26	
	Boiler Stack		540
TOTAL ACM:		13321	3478

APPENDIX A



Briggs Associates
400 Hingham Street
Rockland, MA 02370

ESAL Job #: 3028
Date Received: 8/27/86
Date Reported: 9/02/86

ATTN: JIM LITRIDES

Analysis of Bulk Samples

Sample Description

Contents

G805-6A Control

Asbestos Present
Amosite - 15%
Chrysotile - 45%
Total Asbestos - 60%
Cellulose - 20%
Nonfibrous Material - 20%

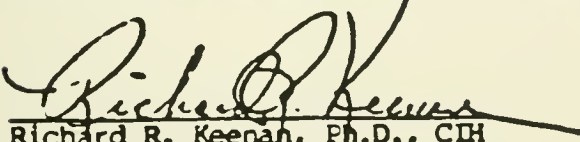
G807-1A
Q.C.

Asbestos Present
Chrysotile - 10%
Crocidolite - 30%
Total Asbestos - 40%
Cellulose - 10%
Nonfibrous Material - 50%

G807-17A
Q.C.

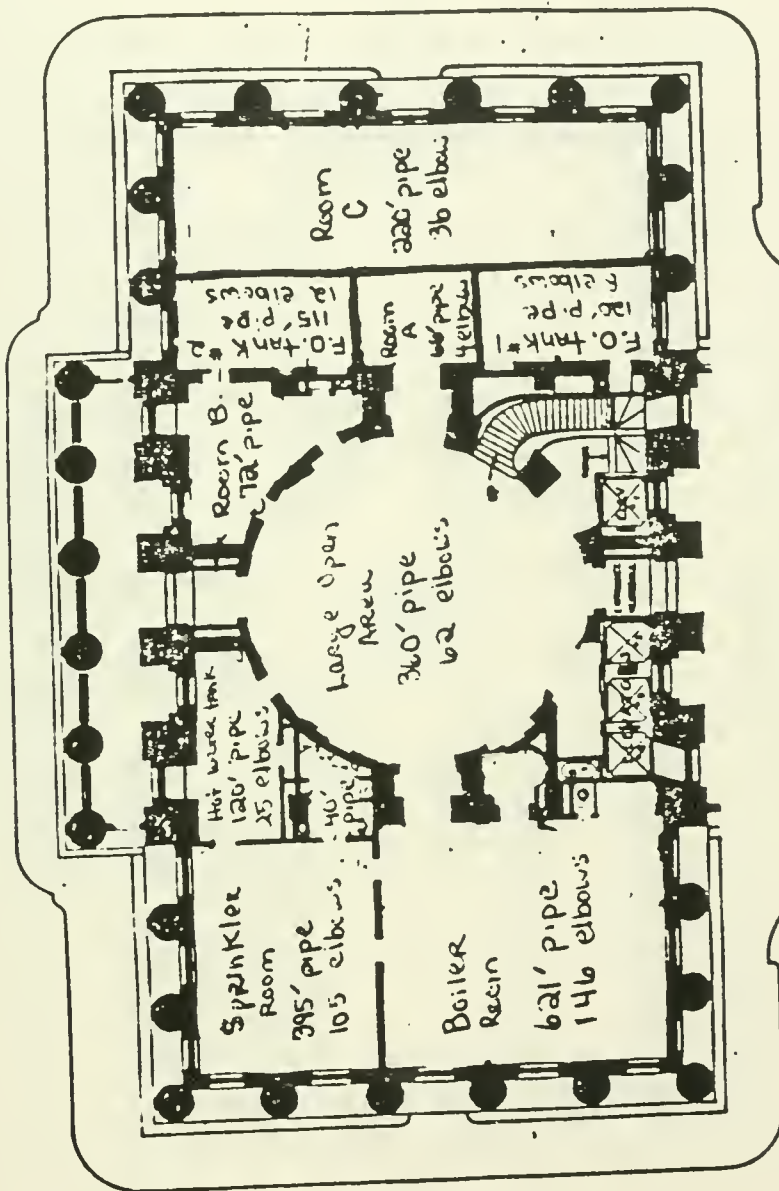
Asbestos Present
Chrysotile - 35%
Total Asbestos - 35%
Cellulose - 10%
Nonfibrous Material - 55%

These samples were analyzed by polarized light microscopy with dispersion staining (according to the EPA recommended method). This method is sensitive to the presence of asbestos to one percent.


Richard R. Keenan, Ph.D., CIH
Laboratory Director



APPENDIX B

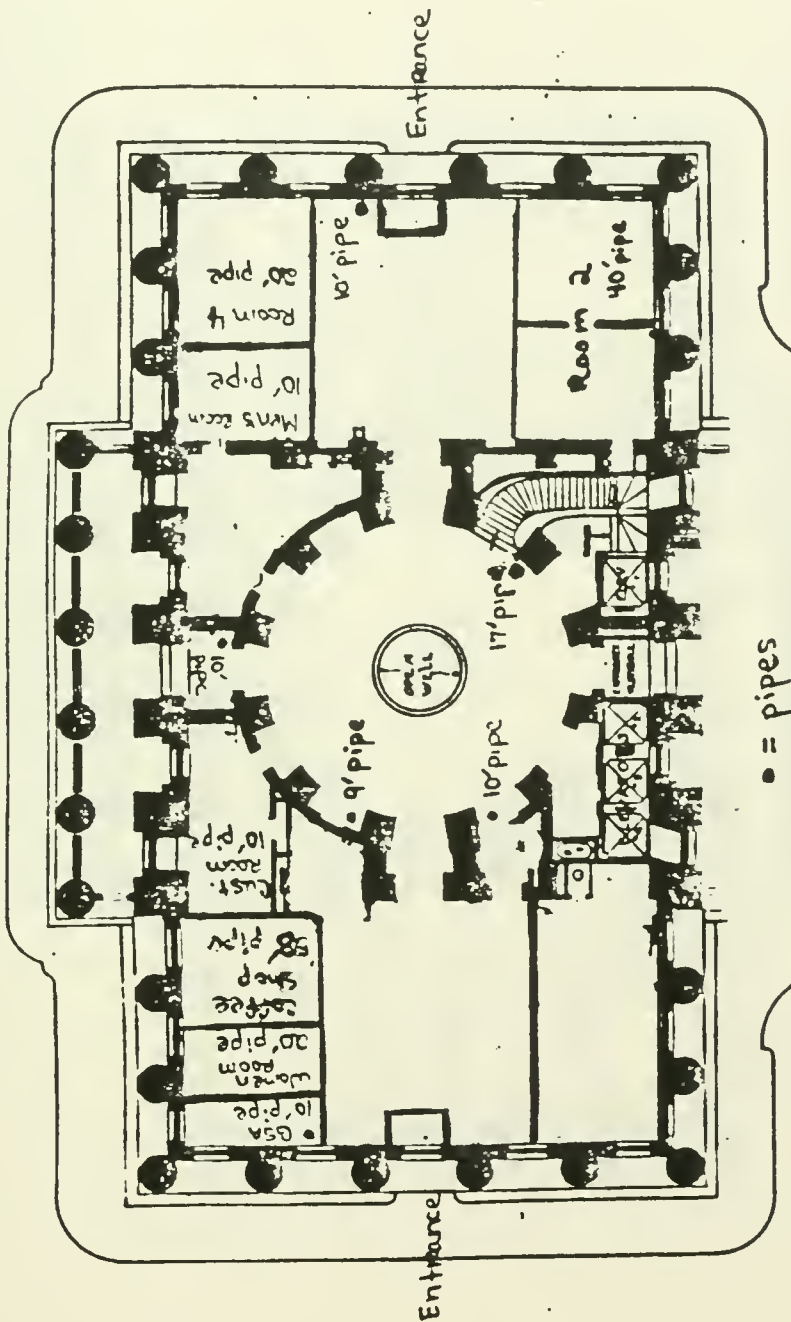


Basement Floor Plan
U S Customs
Treasury Dept

• EXTENSION •
 UNITED STATES CUSTOM HOUSE
 BOSTON MASSACHUSETTS
 PLABODY & JYEARN, ARCHITECTS, BOSTON

Corrected - 11/15/61 - Edw.

LABODY D.
REV 1-18
WUC



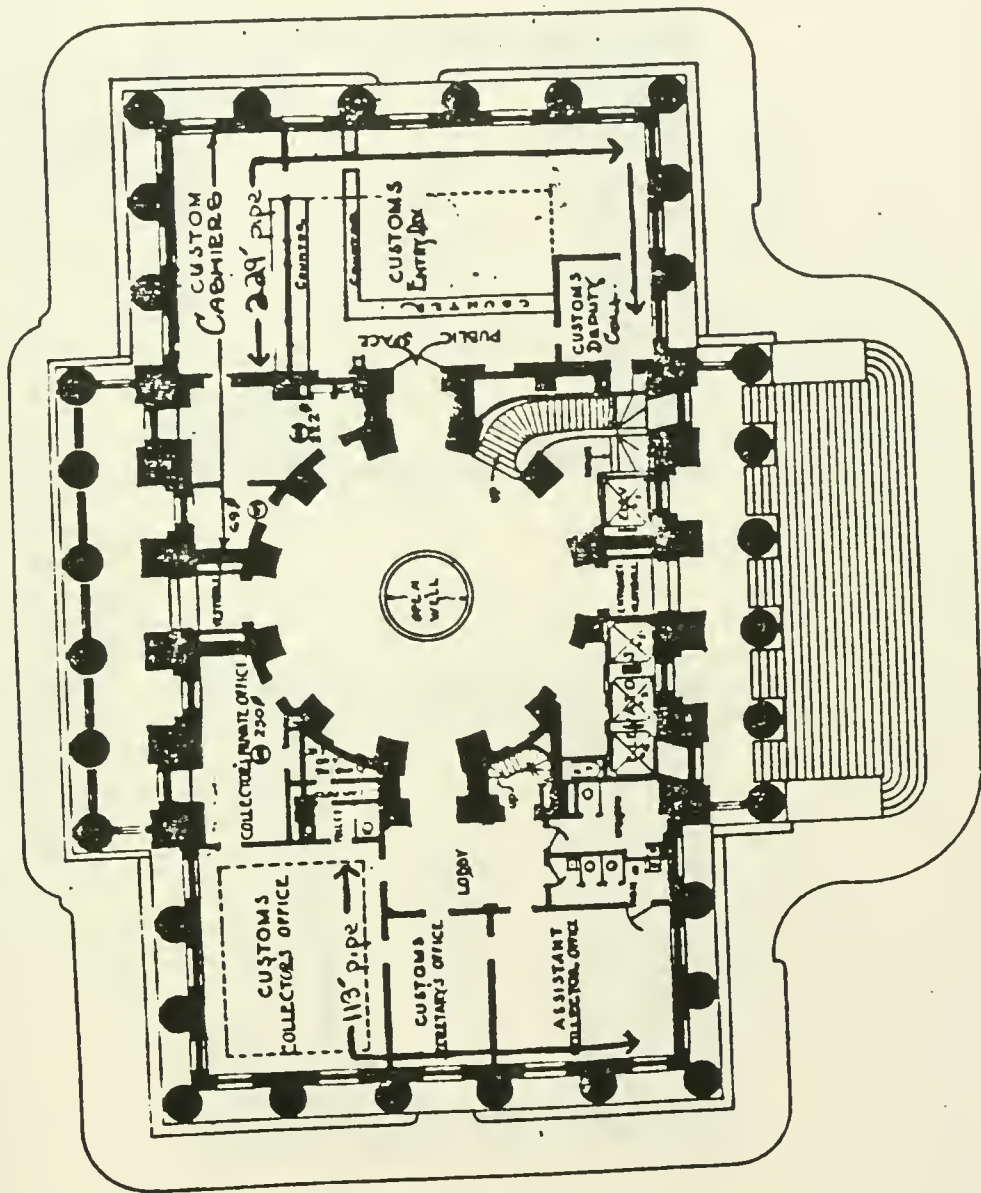
Street Floor Plan
1) S. CUSTOMS

SCALE	1/4" = 1'-0"
EXTENSION -	3
UNITED STATES CUSTOM HOUSE	
BOSTON	
PLANNED BY STEARNS-ARCHITECTS-BOSTON	

Completed 11/15/1911

REVISIONS
NO. 11
DATE

• = pipes



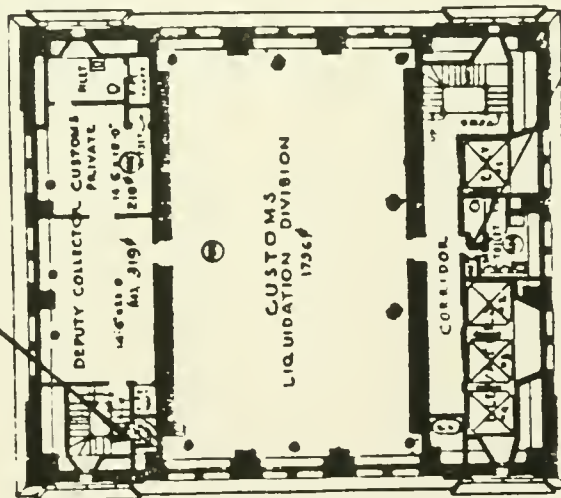
FIRST FLOOR PLAN
U.S. CUSTOMS
TREASURY DEPT.

SCALE	1/4" = 1'-0"
3	
EXTENSION. UNITED STATES CUSTOM HOUSE BOSTON MASSACHUSETTS PLADDY & STEARNS ARCHITECTS-BOSTON	

Copyright 1915 by Pladdy & Stearns

REVISIONS TO 11-11-15

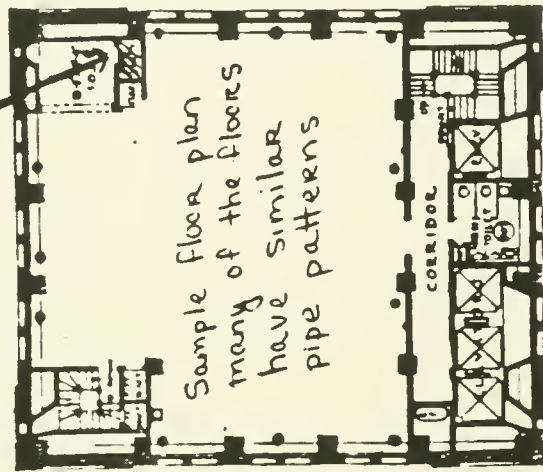
pipe shaft
back stairs



FOURTH FLOOR PLAN
U.S. CUSTOMS

• = pipe insulation

pipe shaft
office area



Sample floor plan
many of the floors
have similar
pipe patterns

SAMPLE FLOOR PLAN

pipe shaft
in bathroom

SCALE 1/4" = 1'-0"	7
EXTENSION - UNITED STATES CUSTOM HOUSE BOSTON MASSACHUSETTS PLANNED BY STEARNS ARCHITECTS BOSTON	

CONSTRUCTION BY
W.C. WOOD

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